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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

5

Complete If Known

Application Number	10/715,819
Filing Date	November 19, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned 1025
Examiner Name	Unassigned ZINDARS

Attorney Docket Number

MEMORY-35

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
1025		5,591,776		Cavalla et al.	01/07/1997	
		5,622,977		Warrelow et al.	04/22/1997	
		5,633,257		Warrelow et al.	05/27/1997	
		5,679,696		Fenton et al.	10/21/1997	
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		5,710,160		Guay et al.	01/20/1998	
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		5,739,144		Warrelow et al.	04/14/1998	
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		6,245,774		Warrelow et al.	06/12/2001	
		6,297,264		Head et al.	10/02/2001	

Examiner Signature

Line W Davis

Date Considered

12/1/2005

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Sheet	2	of	5	Attorney Docket Number	MEMORY-35
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Complete If Known

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Filing Date	November 19, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned

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		Number	Kind Code ² (if known)		
mgd	1	5,880,135			3/9/1999
mgd	2	6,262,040			7/17/2001
mgd	3	6,040,329			3/21/2000
mgd	4	5,889,014			3/30/1999
mgd	5	6,153,630			11/28/2000
mgd	6	2002151566			10/17/2002

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		Office ³	Number ⁴				
mgd		FR	2729142	A1	Nadler et al.	07/12/1996	
mgd		EP	1116711	A2	Chassot et al	07/18/2001	
mgd		EP	0994100	A1	Shinji et al.	04/19/2000	
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mgd		WO	97 00868		PCT	1/9/1997	1
mgd		WO	98 09961		PCT	3/12/1998	2
mgd		WO	97 49702		PCT	12/31/1997	3
mgd		WO	00 69841		PCT	11/23/2000	
mgd		WO	96 21435			7/18/1996	4, 5
mgd		WO	02 074726			9/26/2002	6

Examiner Signature	<i>Laura W. Davis</i>	Date Considered	12/1/2005
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/715,819
Sheet	3	of	5	Filing Date	November 19, 2003
				First Named Inventor	Richard A. SCHUMACHER et al
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	MEMORY-35

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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<i>mpd</i>		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substituted Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-02226236	
<i>mpd</i>		WATANABE et al, "Structure-Activity Relationship and Rational Design of 3,4-Dephostatin Derivatives as Protein Tyrosine Phosphatase Inhibitors", Pergamon Tetrahedron, 2000, Vol. 56, pp. 741-752	
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		VASU NAIR et al., "Synthesis Of Congeners Of Adenosine Resistant To Deamination By Adenosine Deaminase," J. Chem. Soc Comm., 1989, pp. 878-879	
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<i>mpd</i>		JAMES E. KELLEY et al., "Antirhinovirus structure-activity relationships of 6-substituted-9-(4-methylbenzyl)-2-trifluoromethyl-9H-purines," Eur. J. Med. Chem., 1990, pp. 131-135, Vol. 25	

Examiner Signature	<i>Ernest N Davis</i>	Date Considered	12/1/2005
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Sheet	4	of	5	Filing Date	November 19, 2003
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				Group Art Unit	Unassigned
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				Attorney Docket Number	MEMORY-35

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Ynd		ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," <i>Analytical Biochemistry</i> , 1994, pp.154-158, Vol. 215		
	↑	DONALD V. DANIELS et al., "A Semiautomated Method for the Assay of Cyclic Adenosine 5'-Monophosphate Phosphodiesterase," <i>Analytical Biochemistry</i> , 1996, pp. 367-369, Vol. 236		
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		JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," <i>J. Med. Chem.</i> , 1997, pp. 3207-3216, Vol. 40		
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Ynd		Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D," <i>Biochem. And Biophys. Research Comm.</i> , Vol. 234, 320-324 (1997).		

Examiner Signature

Timothy N. Davis

Date Considered

12/1/2005

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Sheet	5	of	5	Filing Date	November 19, 2003
				First Named Inventor	Richard A. SCHUMACHER et al
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<i>2nd</i>		Domine M. T. CHAN et al., "New N- abd O-Arylations with Phenylboronic Acids and Cupric Acetate," <i>Tetrahedron Letters</i> , Vol. 39, 2933-2936 (1998).	
<i>2nd</i>		Mark BARAD et al., "Roliplram, a Type IV-Specific Phosphodiesterase Inhibitor Facilitates the Establishment of Long-lasting Long-term Potentiation and Improves Memory," <i>Proc. Natl. Acad. Sci.</i> , Vol. 95, pp. 15020-15025 (December 1998).	
<i>2nd</i>		Miles D. HOUSLAY et al., "The Multienzyme PDE4 Cyclic Adenosine Monophosphate-Specific Phosphodiesterase Family: Intracellular Targeting, Regulation, and Selective Inhibition by Compounds Exerting Anti-inflammatory and Antidepressant Actions," <i>Advances in Pharmacology</i> , Vol. 44, pp. 225-342, 1998.	
<i>2nd</i>		John HARTWIG et al., "Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand," <i>J. Org. Chem.</i> , 1999, Vol. 64, pp. 5575-5580.	
<i>2nd</i>		Han-Ting ZHANG et al., "Inhibition of Cyclic AMP Phosphodiesterase (PDE4) Reverses Memory Deficits Associated with NDMA Receptor Antagonism," <i>Neuropsychopharmacology</i> , 2000, Vol. 23, pp. 198-204.	
<i>2nd</i>		Han-Ting ZHANG et al., "Effects of Roliplram on Scopolamine-induced Impairment of Working and Reference Memory in the Radial-arm Maze tests in Rats," <i>Psychopharmacology (Berl)</i> 2000 June;150(3):pp. 311-6.	
<i>2nd</i>		T.W. Greene et al., <i>Protective Groups in Organic Synthesis</i> , 3 rd Edition, Chapter 3, "Protection for Phenols and Catechols," pp. 246-292, John Wiley & Sons, 1999	
<i>2nd</i>		Japanese Patent Abstract No. 7206789 dated 8/8/1995	

Examiner Signature	<i>Linne W Davis</i>	Date Considered	12/4/2005
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znd		T. J. Martin, "PDE4 Inhibitors – A Review of the Recent Patent Literature", IDRUGS, Current Drugs Ltd., Vol. 4, No. 3, (2001), pgs 312-338		
znd		PCT Written Opinion dated 1/28/2005		
znd		International Search Report dated 1/19/2005		

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